a set con spain		¥ 2990
OAK RIDGE Y-12 PLANT INFORM	ATION CONTROL FORM	
DUCUMENT DESCRIPTION (Comple	ted By Requesting Division)	
VEI : - 000 74/DEL REV 6-0263		Date of Request
(11.50.37)	23660003 RELEASED Y-12	5/9/95
HEALTH PHYSKS REPORTS (B		
	:	
Author(s) Requestor: Steve Wiley		
TYPE: Formal Report Informal Report Progress/Statu	s Report Co-Op Report	☐ Thesis/Term Paper
Oral Presentation (identify meeting, sponsor, location, date):		
		
Journal Article (Identify Journal)	TT	17. III 1. 14. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18
Other (Specify): To Be Released to ChemRisk, Phase Document will be published in proceedings No Yes	se II	
Document will be published in proceedings No Yes Document will be distributed at meeting No Yes	•	
— — —		
Procument has been previously released No Yes (Reference)		
DIVISION REVIEW AND APPROVAL (Co	moleted By Reguesting Division	
*ESHNICAL CLASSIFICATION PEVIEW (Divisional Classification Representative)	DOCUMENT REDURST APPROVE	0.10
Title(s) U Abstract: NA	My Dian	5/9/9
DOCUMENT: Level Cetegory RD	Signature	Date
12 muan 5-17-95		
LERCKETEDIFOE DELLASS-	Signature	Dete
DISTRIBUTIO	BY THE TECHNICAL INFORMATION	ON OFFICE
Internal Distribution	Distribution: UCN-77218	DOE F-1332.15 Document
	Y-12 Central Files Y-12 RC TIO File L.L. McCaul	Y-12 RC Y-12 RC
ANNOUNCED IN: ERA Atomindex (Available from NTIS)	S.W. Wiley	
M-3679 Category	R.M. Keyse	r
•		
Distribution Remarks: Cleared for Public Release	(Chem Ruk)	
Date Initiated APPROVAL AND R	ELEASE	
5-9-95	litor	
Z CLASSIFICATIONS:	\	Date
Abstract N. A. 3 Pa	and fuce	Date
POCUMENT:		
Level Category		Date
Weapon Data Sigma		
Y-12 Classification Office Gara		Date
Date	·	
APPROVED FOR: Declassification Release subject to use of the	e following admonitory markings and c	anditions:
Disclairner Copyright Patent Caution Other	m.d. Son	5/22/9,5
Conditions/Remarks.	Technical Informa	
SOMEONIONAL PREMIARA.		

Selected Pages From Previously Released Y-12 Health Physics Reports (Box 16-8-9) EXTRACT

Authorized Derivative	Classifier
Kowan	5-17-95
Authorized Signature	Date

Authorized Perivative Declassifier

Reference 5/17/95

Authorized Signature 5/17/95

This material has been reviewed by the Y-12 Classification office and has been determined to be <u>UNCLASSIFIED</u>.

APPROVED FOR PUBLIC RELEASE

Technical Information Office

Total Section 1985

Technical Information Office

This document is an EXTRACT from Multiple Documents

THIS PAGE MUST NOT BE SEPARATED FROM THE ATTACHED DOCUMENT

Append A A TABLE I C

Y-B94-263 (4/25/60) BCX 16 x-9

PERMANENT STACK SAMPLE RESULTS

Samples of several exhaust stacks in uranium chemical operations areas of Building 9212 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

	Avg. U-	Lost Gms./	24 Hours
Area and Location	Jan.	Feb.	Mar.
Building 9212			
E-Wing exhaust stack	.51	12.55	2.28
C-Wing cast iron stack	.15	.17	.08
D-Wing cast iron stack	.08	.38	.09
West Head House exhaust stack	3.98	1.5	.57
Reduction exhaust stack	<.01	< .01	< .01
Room 1008 degreaser exhaust stack	<.01	< .01	< .01
Room 1009 exhaust stack	.13	.25	.2
Room 1010 sintering furnace exhaust stack	<.01	.01	< .01
Room 1010 exhaust stack	<.01	< .01	< .01
Dry Chemistry reactor stack	<.01	< .01	< .01
C-2 stack	.18	.20	.45
B-1 stacks A.J. 105 A.J. 104 A.J. 106 A.J. 101	.09 .52 .08 .01	.14 .07 .17 .03	.06 .09 .23 .01
Building 9206			
Rooms 24, 25, 26, 34, and 36	.23		.03
Rooms 32, 33, 34, 35, 37, 38, 39, 60, 61, 62, and 63	2.94		.08

⁻ continued -

Table I - continued -

	Avg. U-	Lost Gms	./24 Hrs.
Area and Location	Jan.	Feb.	Mar.
Building 9206 - continued -			
Rooms 31 and 32	.25		.02
Dry Chemistry	.04		< .01
Machine Shop (Filtered)	.02		.06
Machine Shop (Unfiltered)	.02		.01
Rooms 40, 41, 42, 43, 44, 45, and 47	.27		.05
Room 51	.05		.02

27/09

TABLE I

RESULTS FROM INDIVIDUAL AIR SAMPLERS

(Showing Average Levels > 70 $d/m/M^3$)

Area and Sampler Number	Location	Quarterly Avg. d/m/M ³
Building 9215		
O-Wing Rolling		
4	Front of annealing bath	115
5	Front of water scrubber	134
6	Entrance to squaring shears	131
7	East of plate storage	123
8	Entrance to circle shears	223
Building 9204-4		
14	Burning table, 1st floor	247*

This operation has been placed in an enclosure. Subsequent samples have been of a low order of magnitude.

TABLE II PERMANENT STACK SAMPLE RESULTS

Samples from O-Wing Rolling and Forming Area, M-Wing Machine Shop, and Sunflower exhaust stacks in the Mechanical Operations Division areas are obtained routinely. These measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this report period is presented in the table below.

	Avg. U-Lost Gms/24 Hours			
Area and Location	January	February	March	
O-Wing exhaust stack	.43	.38	.01	
M-Wing exhaust stack	.54	.44	.39	
Sunflower filter house	62.0	70.0	•	
: 				

- continued -

TABLE I

PERMANENT STACK SAMPLE RESULTS

Samples of several exhaust stacks in uranium chemical operations areas of Buildings 9212 and 9206 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

	Avg. U	-Lost Gms.	/24 Hours
Area and Location	Apr.	May	June
Building 9212			
E-Wing exhaust stack	2.25	.62	2.5
C-Wing cast iron stack	.14	.65	.25
D-Wing cast iron stack	.55	.32	.28
West Head House exhaust stack	.93	2.17	.96
Reduction exhaust stack	<.01	< .01	< .01
Room 1008 degreaser exhaust stack	<.01	< .01	< .01
Room 1009 exhaust stack	.14		.07
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .01
Room 1010 exhaust stack	< .01	< .01	< .01
Dry Chemistry reactor stack	.06	< .01	< .01
C-1 stack	.38	1.22	.77
C-2 stack	.32	.25	.19
B-1 stacks A. J. 105 A. J. 104 A. J. 106 A. J. 101 A. J. 412 Building 9206	.07 .09 .16 <.01 .01	.07 .26 .32 .01 .02	.01 .03 .13 .04 .08
Rooms 24, 25, 26, 34, and 36	.08	.02	.02

f (🛊

Table I - continued -

	Avg. U-	Lost Gms.	/24 Hours
Area and Location	Apr.	May	June
Building 9206 - continued -			
Rooms 32, 33, 34, 35, 37, 38, 39, 60, 61, 62, and 63	.33	.14	.07
Rooms 31 and 32	.01	.01	.01
Dry Chemistry	.04	.02	.05
Machine Shop (Filtered)	.01	.02	.01
Machine Shop (Unfiltered)	.01	.01	.01
Rooms 40, 41, 42, 43, 44, 45, and 47	.05	.65	.23
Room 51	.01	.02	.01

Y-1394-270 (7/21/60) B=x 16-8-9

TABLE I
PERMANENT STACK SAMPLE RESULTS

Samples from O-Wing Rolling and Forming Area, M-Wing Machine Shop, and Sunflower exhaust stacks in the Mechanical Operations Division areas are obtained routinely. These measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this report period is presented in the table below.

	Avg. U-Lost Gms./24 Hrs.			
Area and Location	April	May	June	
O-Wing exhaust stack	.02	.03	.01	
M-Wing exhaust stack	.59	.55	.50	
Sunflower filter house	*	775.00	508.00	

^{*}Sampler out of order during the month of April.

TABLE F

Y- B94-276 (10/21/60)

PERMANENT STACK SAMPLE RESULTS

samples of several exhaust stacks in uranium chemical operations areas of Buildings \$212 and 9206 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

July 4.90 0.20 2.60	Aug. 2.30 0.12	2.13 0.08
0.20		
0.20		
	0.12	റ റ
2,60		0.00
	0.15	0.05
0.74	0.73	0.82
<.01	< .01	<.01
<.01	<.01	< .01
0.06	0.11	0.37
<.01	<.01	<.01
<.01	<.01	< .01
0.01	<.01	0.01
0.33	0.37	0.01
0.62	0.23	
0.09 0.04 0.08 <.01 <.01	0.06 0.01 0.04 0.01 <.01	0.06 0.02 0.04 < .01 < .01 0.02
	<.01 <.01 0.06 <.01 <.01 0.01 0.33 0.62 0.09 0.04 0.08 <.01	<.01 <.01 <.01 <.01 0.06

⁻ continued -

	Avg. U-Lost Gms./24 Hours			
Area and Location	July	Aug.	Sept.	
Building 9212				
B-1 stacks - continued -				
2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust Feed preparation dry filter	0.02 0.01 <.01	0.01 0.01 <.01 <.01	0.01 0.01 <.01 <.01	
exhaust		< .01	0.05	
Building 9206				
Rooms 24, 25, 26, 34, and 36		0.04	0.02	
Rooms 32, 33, 34, 35, 37, 38, 39, 60, 61, 62, and 63	0.02	0.15	0.10	
Rooms 31 and 32	0.13	0.09	0.08	
Dry Chemistry	0.04	0.01	0.03	
Machine Shop (Filtered)	< .01	0.01	0.03	
Machine Shop (Unfiltered)	< .01	0.35	< .01	
Rooms 40, 41, 42, 43, 44, 45, and 47	0.09	0.99	0.24	
Room 51	0.01	0.01	0.01	
		•		

₿.

TABLE I

PERMANENT STACK SAMPLE RESULTS

Samples from O-Wing Rolling and Forming Area, M-Wing Machine Shop, and Sunflower exhaust stacks in the Mechanical Operations Division areas are obtained routinely. These measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this report period is presented in the table below.

	Average U-Lost Gms./24 Hrs.			
Area and Location	July	Aug.	Sept.	
C-Wing exhaust stack	<.01	<.01	0.01	
M-Wing exhaust stack	0.23	0.32	0.22	
Sunflower filter house	418.00	184.00	87.00	

TABLE I

H-1 FOUNDRY

BREATHING ZONE AND OPERATIONAL AIR SAMPLES

No. of Samples 2	_			No. of San	nples > PAL2
Area and Location		No. of Samples	No. of Samples > PAL	Avg. Time (Min.)	Avg. U-Air Conc. (d/m/M ³)
BZ, sanding	rod	2	2	5	300*

^{*}It is suggested that respiratory protection be employed at this operation.

Table I \(\frac{1}{2} \rightarrow \frac{394 - 281}{1/26/60}, \\ \Box_2 \left(\frac{1}{2} \right) \\ \Box_2 \left(\frac{1}{2} \right) \\ \Box_3 \\ \Right(\frac{1}{2} \right) \\ \Right

PERMANENT STACK SAMPLE RESULTS

ples of several exhaust stacks in uranium chemical operations areas of Buildings and 9206 are obtained routinely. The measurements are valuable as an index of material loss to the atmosphere. A summation of the analyses obtained during this rod is presented in the table below.

	Average U-Lost Gms./24 Hours			
3	October	November	December	
!ding 9212				
E-Wing exhaust stack	4.7	3.9	1.39	
C-Wing cast iron stack	0.16	0.58	0.7	
D-Wing cast iron stack	0.20	0.17	0.35	
West Head House exhaust stack	0.7	2.3	2.5	
Reduction exhaust stack	<.01	<.01	< .01	
Room 1008 degreaser exhaust stack	<.01	< .01	< .01	
Room 1009 exhaust stack	0.4	0.6	0.28	
Room 1010 sintering furnace exhaust stack	<.01	<.01	<.01	
Room 1010 exhaust stack	< .01	< .01	< .01	
Dry Chemistry reactor stack	<.01	< .01	< .01	
C-1 stack	0.56	0.49	0.53	
C-2 stack	0.16	0.23	0.21	
Ory Chemistry, HF stack		< .01	*<.01	
B-1 stacks				
A. J. 105 A. J. 104 A. J. 106 A. J. 101 A. J. 412 2nd floor exhaust	0.02 0.03 0.04 <.01 <.01 <.03	<.01 0.04 0.05 <.01 <.01	<.01 0.07 0.04 <.01 <.01	
Alid Hoof evilanst			- continue	

resents eight sampling days.

Continuoa

	Average U-Lost Gms/24 Hour			
ea and Location	October	November	December	
ilding 9212				
B-1 stacks - continued -				
2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust Feed preparation dry filter exhaust	0.01 0.02 <.01 <.01	<.01 <.01 <.01 <.01	0.02 0.02 <.01 <.01	
ilding 9206				
Rooms 24, 25, 26, 34, and 36	0.02	0.01	0.03	
Rooms 32, 33, 34, 35, 37, 38, 39, 60, 61, 62, and 63	0.11	0.06	0.08	
Rooms 31 and 32	0.08	<.01	0.02	
Dry Chemistry	0.03	<.01	<.01	
Machine Shop (Filtered)	0.03	<.01	<.01	
Machine Shop (Unfiltered)	<.01	<.01	< .01	
Rooms 40, 41, 42, 43, 44, 45, and 47	0.22	0.06	0.09	
Room 51	< .01	<.01	<.01	

Y-1394-283 (1/31/61) BCX 16-8-9

Table III

PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Gms./24 Hours			
Area and Location	Oct.	Nov.	Dec.	
O-Wing exhaust stack	.01	.01	.01	
M-Wing exhaust stack	.02	.26	.15	
Sunflower filter house	219.00	248.00	499.00	

.(1

. Y-B94-286 (5/1/61) BOK 16-4-9

PERMANENT STACK SAMPLE RESULTS

Samples of several exhaust stacks in uranium chemical operations areas of Buildings 9212 and 9206 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

	Average U-Lost Grams/24 Hours			
Area	January	February	March	
Building 9212				
E-Wing exhaust stack	2.9	2.6	4.9	
C-Wing cast iron stack	1.6	0.84	0.3	
D-Wing cast iron stack	0.4	0.40	0.09	
West Head House exhaust stack	1.4	1.95	1.4	
Reduction exhaust stack	< .01	< .01	< .01	
Room 1008 degreaser exhaust stack	< .01	< .01	< .01	
Room 1009 exhaust stack	0.22	0.14	0.2	
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .01	
Room 1010 exhaust stack	0.2	< .01	< .01	
Dry Chemistry reactor stack	< .01	0.91		
C-l stack	0.5	0.65	0.35	
C-2 stack	0.4	0.41	0.20	
B-1 stacks				
A. J. 105 A. J. 104 A. J. 106 A. J. 101 A. J. 412 2nd floor exhaust 2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust Feed preparation dry filt	0.06 0.07 0.03 <.01 <.01 0.01 0.03 <.01 0.01	0.02 0.04 0.01 0.01 0.01 <.01 0.03 <.01	0.09 0.24 0.05 <.01 <.01 <.01 0.03 <.01	
Feed preparation dry litter exhaust	0.02	0.02	. 0.03	

⁻ continued -

Table I - continued -

	Average	U-Lost Grams/2	4 Hours
Area and Location	January	February	March
Building 9206			
Rooms 20 and 27	0.01	< .01	0.02
Rooms 24, 28, and 29	0.04	0.21	0.29
Rooms 26 A and C	0.01	0.01	< .01
Dry Chemistry	< .01	< .01	0.01
Machine Shop (Filtered)	< .01	0.01	0.01
Machine Shop (unfiltered)	< .01	< .01	< .01
Room 30	0.06	0.05	0.15
Room 51		***	< .01

ETUP

4-B94-290 (5/5/61) Bex 16-8-9

Table III PERMANENT STACK SAMPLE RESULTS

Average	U-Lost Gms./24 H	ours
January	February	March
.¥0.	< .01	< .01
0.17	0.28	0.25
433.00	598.00	358.00
	January .GF: 0.17	0.17 0=28

PERMANENT STACK SAMPLE RESULTS

Samples of several exhaust stacks in uranium chemical operations areas of Buildings 9212 and 9206 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

	Average U-Lost Grams/24 Hours		
rea	April	May	June
uilding 9212			
E-Wing exhaust stack	.71	.50	.60
C-Wing cast iron stack	.36	.18	.15
D-Wing cast iron stack	.14	.10	• 111
West Head House exhaust stack	1.76	.44	•59
Reduction exhaust stack	< .01	< .01	< .01
Room 1008 degreaser exhaust stack	< .01	< .01	< .01
Room 1009 exhaust stack	.18	• O ¹ 4	.06
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .01
Room 1010 exhaust stack	< .01	< .01	< .01
Dry Chemistry reactor stack	.03	.16	.09
C-l stack	•34	.50	.38
C-2 stack	•54	.30	•39
B-l stacks			
A. J. 105 A. J. 104 A. J. 106 A. J. 101 A. J. 412 2nd floor exhaust 2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust	.03 .05 .03 < .01 < .01 < .01 < .01 < .01	.01 .03 < .01 < .01 < .01 < .01 < .01 < .01	.0. .0. < .0 < .0 < .0 < .0 < .0
Feed preparation dry filter exhaust	.20	.16	9

⁻ continued -

Table I - continued -

	Average U-Lost Grams/24 Hours		
Irea	April	May	June
Building 9206			
Rooms 20 and 27	.03	.02	.03
Rooms 24, 28, and 29	.38	.30	.08
Rooms 26 A and C	.02	.02	.02
Dry Chemistry		.13	.01
Machine Shop (Filtered)	.02	.02	.02
Machine Shop (Unfiltered)	< .01	< .01	< .01
Room 30	.07	.07	.64
Room 37	.01	.05	.02

W

Table II

(0

Y-B94-296 (8/14/61 BCK 16-8-9

THORIUM OPERATIONS

BREATHING ZONE AND OPERATIONAL AIR SAMPLES

No. of Samples 259

No. of Samples > PAL* 23

Area and Description	No. of Samples	No. of Samples > PAL	Avg. Time (Min.)	Avg. Air Count	Conc. (d/m/M ³) Chemical
P-Wing 3rd Mill					
GA, while rolling hot thorium	155	3	9	27	3.0
GA, while rolling cold thorium	88	16	16	7	0.1
GA, while annealing canned thorium in salt bath	11	0	280	4	u- u- u-
Building 9204-4					
Forming billets	2	0	18	5	
Welding steel cans containing thorium	3	0	35 	1	

^{*}PAL for thorium is 4.4 d/m/M^3 determined by chemical analysis.

Table III
PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Gms./24 Hours			
Area and Location	April	May	June	
O-Wing exhaust stack	< .01	< .01	.01	
M-Wing exhaust stack	.13	.15	•37	
Sunflower filter house	354.00	380.00	629.00	

Table I

PERMANENT STACK SAMPLE RESULTS

Samples of several exhaust stacks in uranium chemical operations areas of Buildings 9212 and 9206 are obtained routinely. The measurements are valuable as an index of the material loss to the atmosphere. A summation of the analyses obtained during this period is presented in the table below.

	Average U-Lost Grams/24 Hour		
а	July	Aug.	Sept
lding 9212			
E-Wing exhaust stack	1.49	1.09	5 - 3!
C-Wing cast iron stack	.86	.69	.13
D-Wing cast iron stack	.56	1.16	1.1
West Head House exhaust stack	3.54	9•97	8.4
Reduction exhaust stack	.01	.01	< .0
Room 1008 degreaser exhaust stack	< .01	< .01	< .0
Room 1009 exhaust stack	•32	.18	.3
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .0
Room 1010 exhaust stack	< .01	< .01	< .0
Dry Chemistry reactor stack	.19	.34	•:
C-l stack	1.30	1.36	1.0
C-2 stack	.21	•53	•(
B-l stacks			
A. J. 104 A. J. 104 A. J. 106 A. J. 101 A. J. 412 2nd floor exhaust 2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust Feed preparation dry filter exhaust	.08 .07 .15 < .01 < .01 .04 .02 .03 .14 .04	.07 .04 .08 < .01 .01 .03 < .02 .04 .01 .04	< .
C-Wing Rover exhaust		.13	•

⁻ Continued -

Table I - Continued -

	Average U-Lost Grams/24 Hours		
Area	July	Aug.	Sept.
Building 9206			
Rooms 20 and 27	•03	.03	.05
Rooms 24, 28, and 29	.12	.19	.15
Rooms 26 A and C	.03	.03	.06
Dry Chemistry	• 014	• 04	.05
Machine Shop (Filtered)	.02	.05	.06
Machine Shop (Unfiltered)	< .01	< .01	< .01
Room 30	.56	.15	.12
Room 37	.03	.01	.02

Y-1394-302 (11/9/61) BOK 14-8-9

Table III PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Gms/24 Hours			
Area and Location	July	August	September	
O-Wing exhaust stack	0.08	0.08	0.04	
M-Wing exhaust stack	0.50	0.61	0.46	
Sunflower filter house	180.00	249.00	803.00	

7-B94-305 (1/26/62)
BCX 16-8-9
16

Table III
PERMANENT STACK SAMPLE RESULTS

19.3

	Average U-Lost Gms/24 Hours			
Area and Location	October	November	December	
O-Wing exhaust stack	• 014	< .01	.04	
M-Wing exhaust stack	.87	•73	.81	
Sunflower filter house	562.0	642.0	387.0	

TO THE PERSON OF THE PERSON OF

Table VI
PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Grams/24 Hours		
100	October	November	December
rea			
uilding 9212		0	2.0
E-Wing exhaust stack	5.4	1.38	3.8
C-Wing cast iron stack	.14	.08	.05
D-Wing cast iron stack	1.12	1.56	2.00
West Head House exhaust stack	9.87	15.97	9.8
Reduction exhaust stack	< .01	.02	.02
Room 1008 degreaser exhaust stack	.01	.02	< .01
Room 1009 exhaust stack	.29	.45	•5
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .01
Room 1010 exhaust stack	< .01	< .01	< .01
Dry Chemistry reactor stack	.11	.09	1.33
C-l stack	1.0	1.2	•73
C-2 stack	.46	.63	.26
B-1 stacks			
A. J. 105 A. J. 104 A. J. 106 A. J. 101 A. J. 412 2nd floor exhaust 2nd floor exhaust Conversion area exhaust Dissolver area exhaust Denitrator room exhaust Feed preparation dry filter exhaust	.14 .07 .11 .01 < .01 .04 .03 .07 .02 .07	.11 .04 .08 < .01 < .91 .02 .02 .17 .03 .06 .16	.04 .09 .01 < .01 .02 .03 .03
C-Wing Rover exhaust	.07	.2 4	•0

(Continued)

Table VI - Continued -

	Average U-Lost Grams/24 Hours		
rea	October	November	December
uilding 9206			
Rooms 20 and 27	.12	•03	• 04
Rooms 24, 28, and 29	.43	1.00	.19
Rooms 26 A and C	.07	.02	.02
Dry Chemistry	.02	.05	.03
Machine Shop (Filtered)	.16	.49	•96
Machine Shop (Unfiltered)	< .01	< .01	< .01
Room 30	.28	•35	.18
	• O ¹ 4	.01	.01
Room 37	•04	•01	• `

Table VI PERMANENT STACK SAMPLE RESULTS

	Averso	e U-Lost Grams/24 Hou	rs
	January	February	March
e8			
ilding 9212			
	1. 6	6.8	6.8
E-Wing exhaust stack	4.6	3.3	
2	.06	• 04	.02
C-Wing cast iron stack	.00	•••	
	1.2	1.2	1.1
D-Wing cast iron stack	⊥• €		
•	3.8	4.8	4.2
West Head House exhaust stack	3.0		
	< .01	< .01	< .01
Reduction exhaust stack	· • • • • • • • • • • • • • • • • • • •		
	< .01	< .01	< .03
Room 1008 degreaser exhaust stack	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \		_
	.21	•2	.1
Room 1009 exhaust stack	V		_
A arhougt gtack	< .01	< .01	< .0
Room 1010 sintering furnace exhaust stack			
a an a substant about	.01	< .01	<0
Room 1010 exhaust stack		. •	,
- multiple monaton stack		.06	.1
Dry Chemistry reactor stack			2.4
a latest		1.1	2.4
C-1 stack		.46	.3
C-2 stack	•93	.40	•-
C-2 Stack			
B-1 stacks			
Def adden	25	•35	.2
A.J. 105	.05	•35	•
A.J. 104	.07	.1	•
A.J. 106	.07	.01	<.
A.J. 101	< .01	.02	•
A.J. 412	.01		•
2nd floor exhaust	.02	.15	•
2nd floor exhaust	.02	.12	•
Conversion area exhaust	.06	.11	•
Dissolver area exhaust	.01	.03	•
Denitrator room exhaust	.13	.03	•
Feed preparation dry filter exhaust	.38	.21	•
teen brebaragion and research			
Rover exhaust	.16	.02	•
MOAGL GYTTEMBA			1.2
		- Con	tinued -

	Average	U-Lost Grams/24 Ho	nurs
res.	January	February	Marc
nilding 9206			
Rooms 20, 24, and 27	• O _J +	.07	.07
Rooms 24, 25, 26, 27, 28, and 29	.29	.15	.2]
	•03	.01	.17
Rooms 26 A and C	.02	•33	.8
Dry Chemistry	.10	.08	.0
Machine Shop (Filtered)	< .01	< .01	< .0
Machine Shop (Unfiltered)	.29	.17	.:
Room 30	.03	•05	.(

1-KB-8 (5/15/66) Bex 16 8-9

Table III
PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Gms/24 Hours		
	January	February	March
Area and Location	.04	.05	.05
0-Wing exhaust stack	.45	.71	.64
M-Wing exhaust stack	•	482.0	318.0
Sunflower filter house	ነ ት0•0		

Y-KB-14 (8/14/62) BOX 16-4-9

Table VI

PERMANENT STACK SAMPLE RESULTS

	Average U-	Lost Grams/24	Hours
Area	April	May	June
Building 9212			
	7.30	8.80	3.15
E-Wing exhaust stack	< .01	< .01	.06
C-Wing cast iron stack			
D-Wing cast iron stack	.89	.20	1.15
West Head House exhaust stack	2.90	1.10	1.60
Reduction exhaust stack	< .01	< .01	< .01
Room 1009 exhaust stack	.15	.07	< .01
Room 1010 sintering furnace exhaust stack	< .01	< .01	< .01
Room 1010 exhaust stack	.01	< .01	< .01
	.14	.06	.21
Dry Chemistry reactor stack	1.50	2.00	1.58
C-1 stack	•		
C-2 stack	•47	.09	.15
B-1 stacks	•		
A.J. 105	. O4	.05	.04
A.J. 104	.05	< .01	.03
A.J. 106	.05	.08	.04 .01. >
A.J. 101	< .01	< .01	
A.J. 412	.01	.œ	.03 .01 >
2nd floor exhaust	.œ	.02	.0.
2nd floor exhaust	.01	.01	.02
Conversion area exhaust	.08	.02	.02 .03
Dissolver area exhaust	< .01	< .01	.03
Denitrator room exhaust Feed preparation dry filter exhaust	.03 .39	.02	.30
Rover exhaust	.02	.01	.01

(Continued)

	Average U	J-Lost Grams/24	Hours
Area	April	May	June
Building 9206	·	•	
Rooms 20, 24, and 27	. O4	.03	.02
Rooms 24, 25, 26, 27, 28, and 29	.19	.46	.45
Rooms 26 A and C	.11	.08	.05
Dry Chemistry	< .01	< .01	.< .01
Machine Shop (filtered)	. O ¹ 4	.04	.05
Room 30	.18	.10	.07
Room 37	< .01	< .01	.01

Y-KB-15 (8/15/62)

Table III
PERMANENT STACK SAMPLE RESULTS

	Average U-Lost Gms/24 Hours		
Area and Location	April	May	June
0-Wing exhaust stack	.03	.06	.05
. '' M-Wing exhaust stack	•39	.66	.80
Sunflower filter house	491.00	492.00	553.00